

Name: _____

p1029: Box multiplication of linear binomials (v16)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	$6x$	3	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
4	$24x$	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(2x + 8)$ and $(4x + 6)$.

*	$2x$	8	
$4x$	$8x^2$	$32x$	
6	$12x$	48	

ANSWER: $8x^2 + 44x + 48$

Question 2

Use the box method to multiply $(8x + 4)$ and $(-5x - 9)$.

*	$8x$	4
$-5x$	$-40x^2$	$-20x$
-9	$-72x$	-36

ANSWER: $-40x^2 - 92x - 36$

Question 3

Use the box method to multiply $(-7x + 3)$ and $(4x - 5)$.

*	$-7x$	3
$4x$	$-28x^2$	$12x$
-5	$35x$	-15

ANSWER: $-28x^2 + 47x - 15$